

FIG. 3

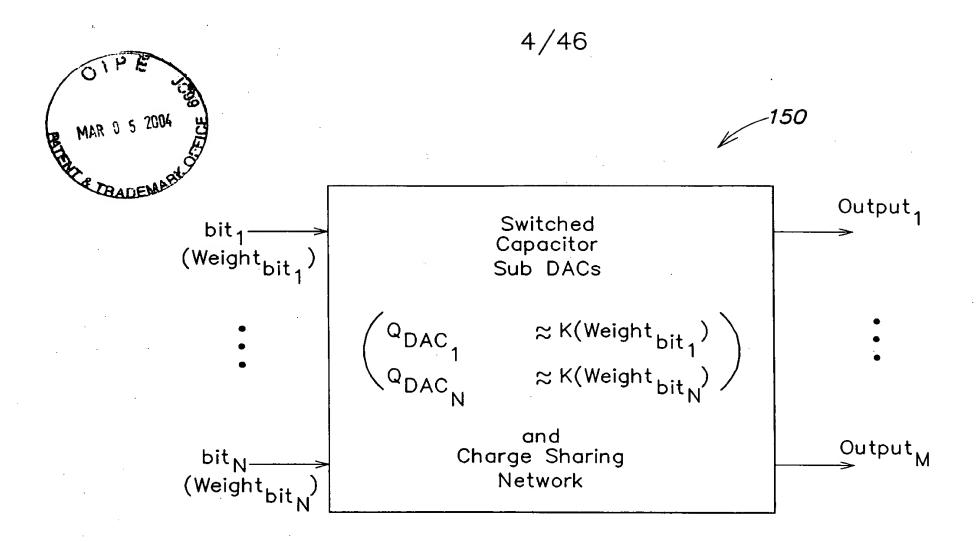


FIG. 4

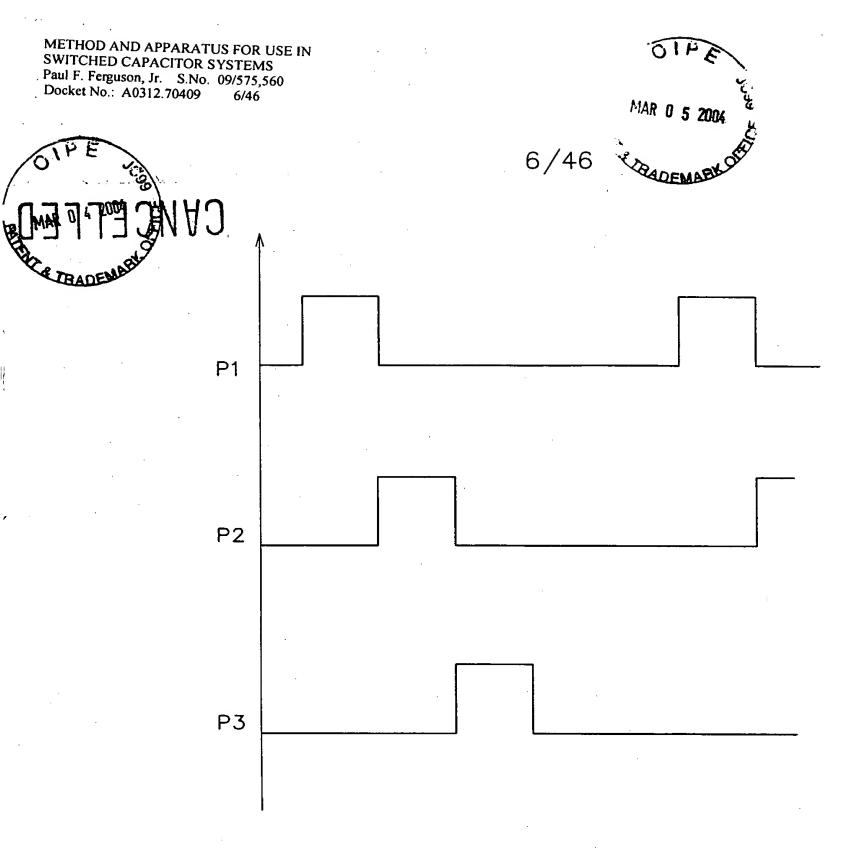


FIG. 6

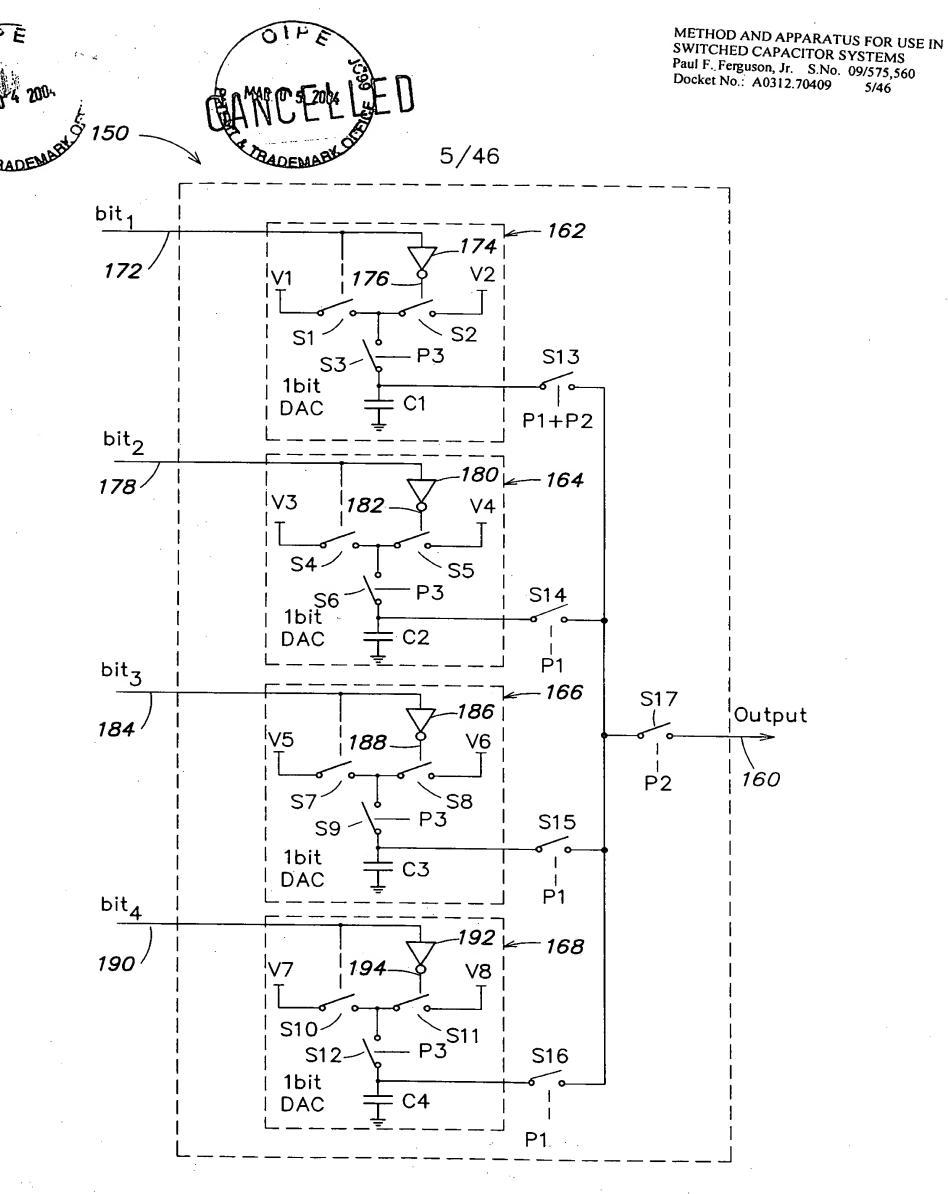
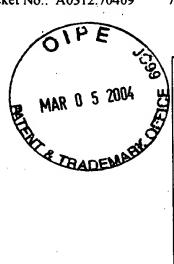


FIG. 5



\ -		<u></u>		•		
ADDE OF		Q(C1)=C*V <sub>ref</sub>	Q(C2)=0	Q(C3)=0	Q(C4) = 0	
		$V(C1)=V_{ref}$	V(C2)=0	V(C3)=0	V(C4)=0	
	ik-	P1="0"	P2="0"	P3="1"		-

Output

**S17** 

**S14** 

164

162

**S15** 

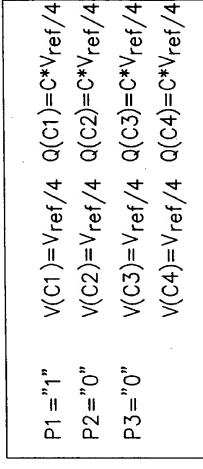
166

**S16** 

168

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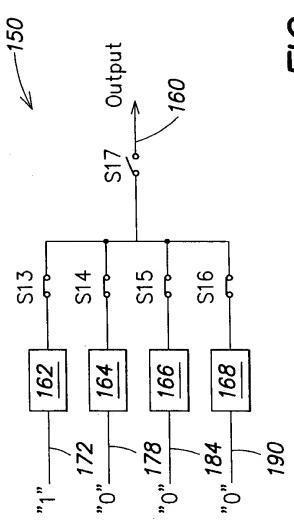


FIG. 7B



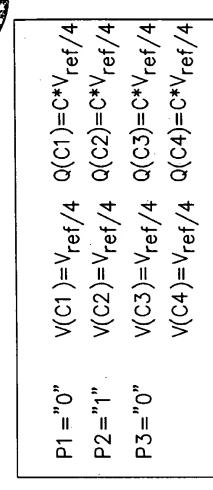
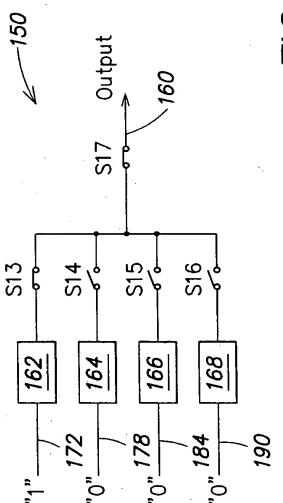
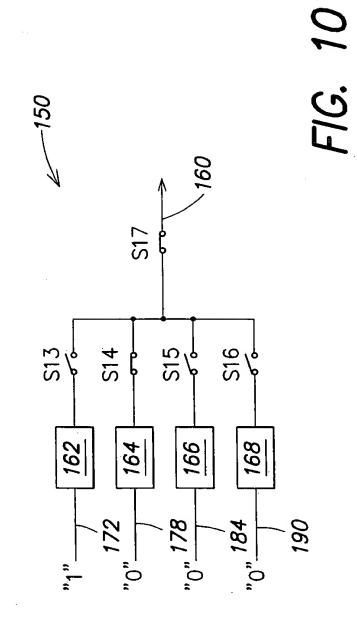
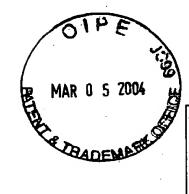


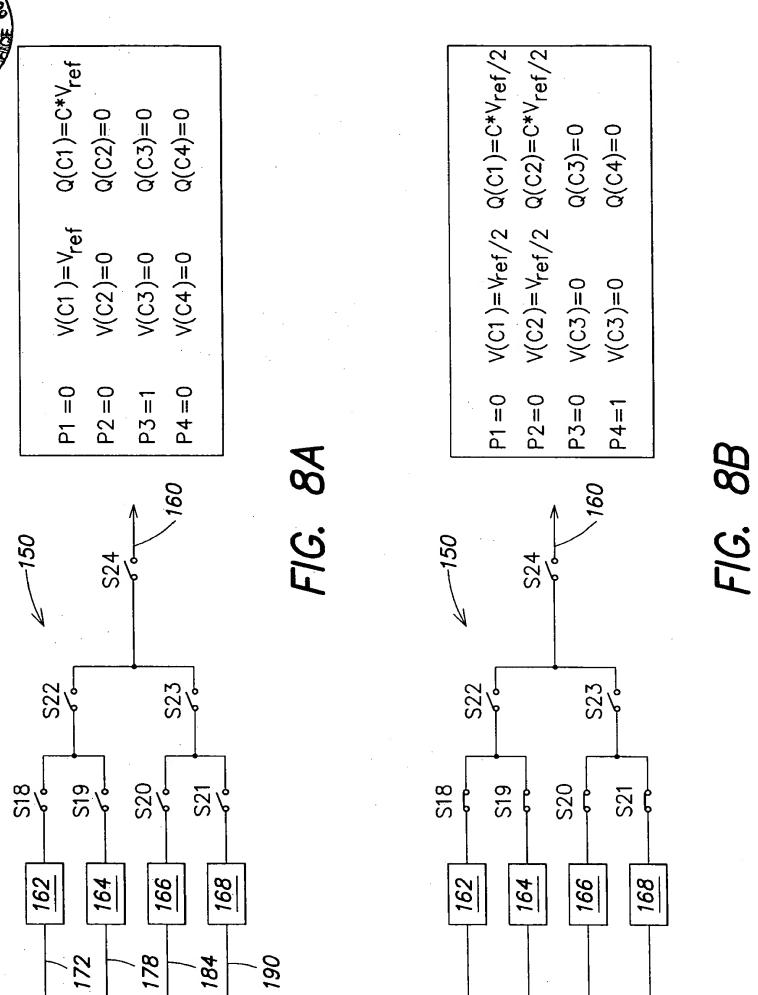
FIG. 7C











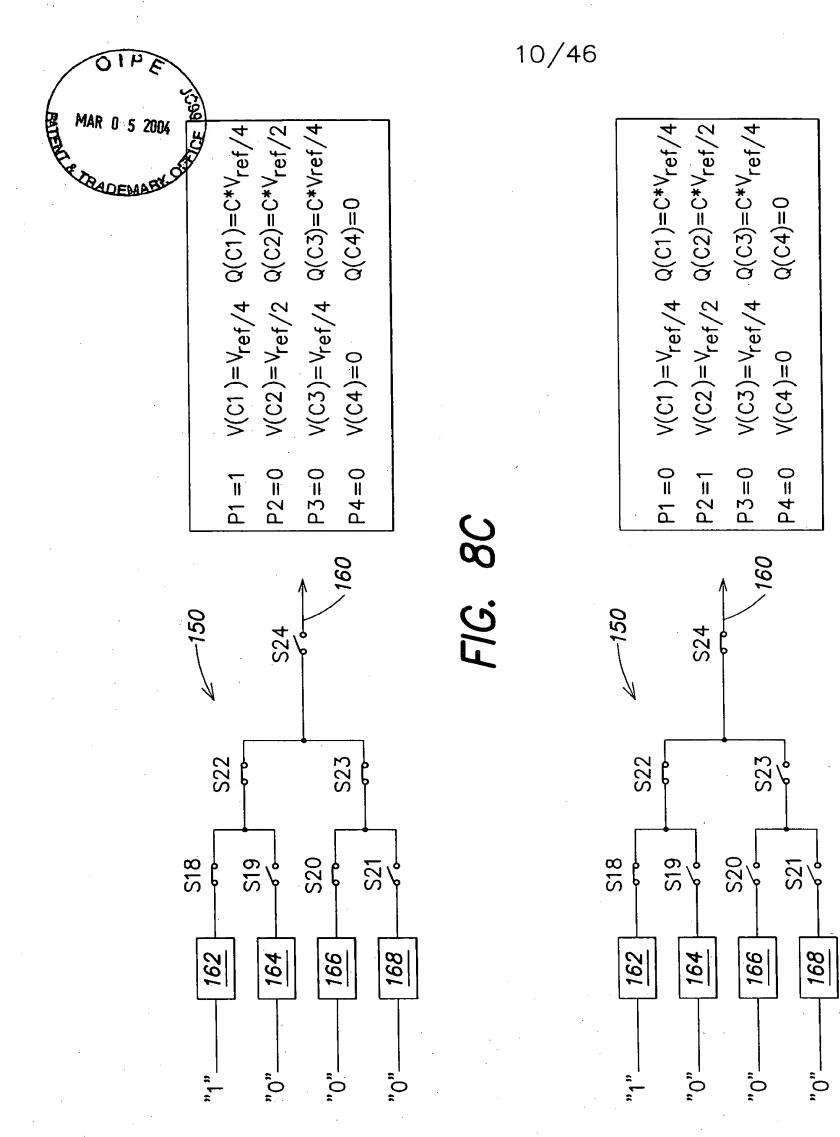


FIG. 8D

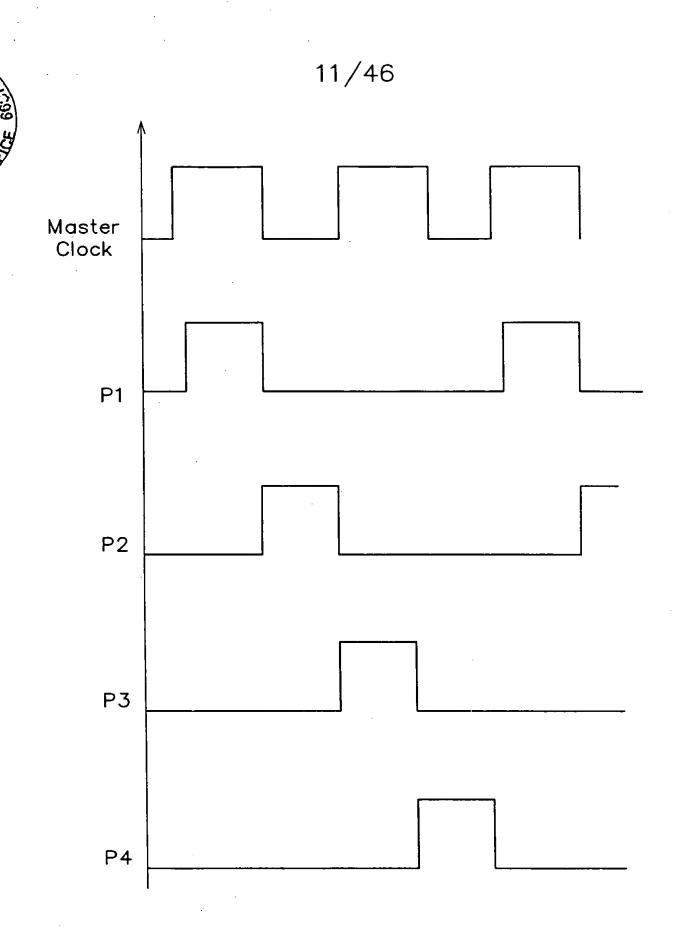
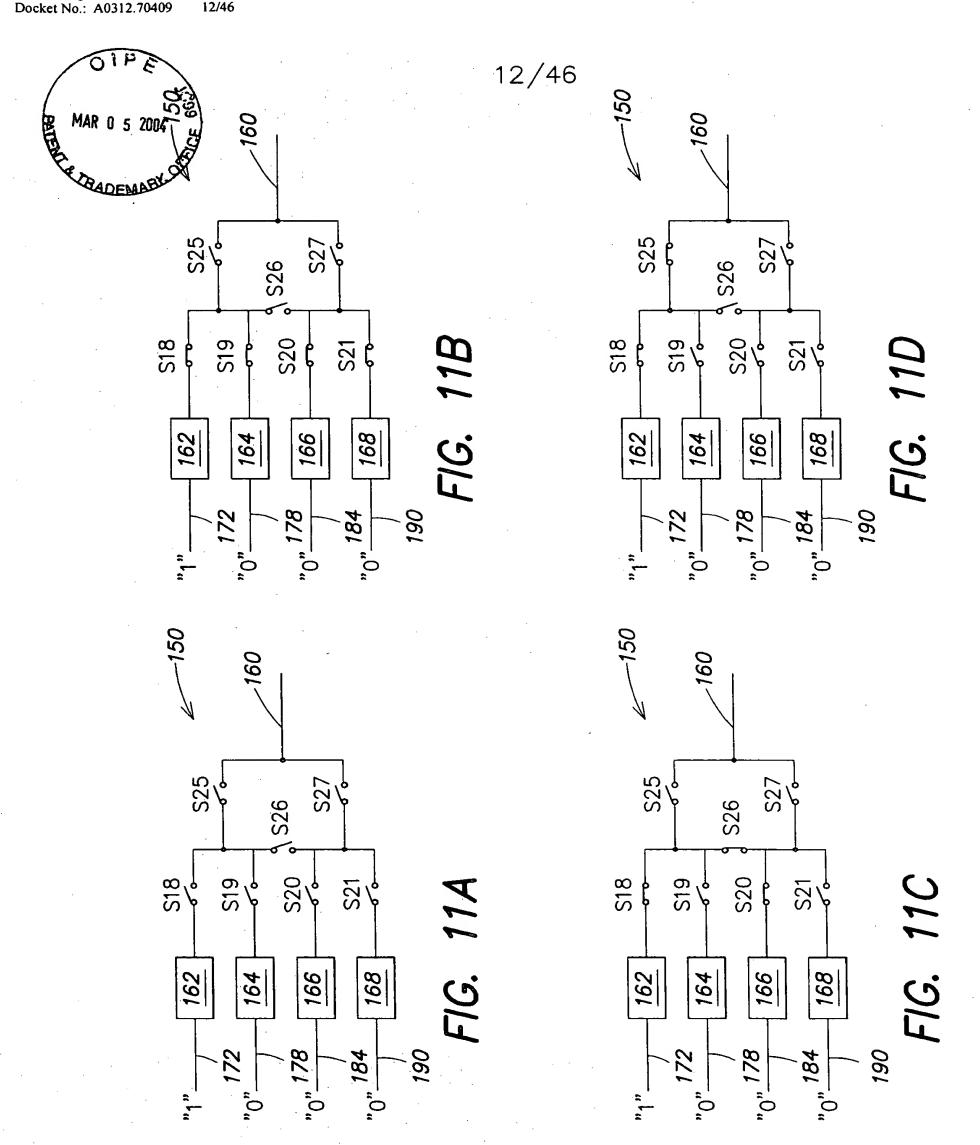
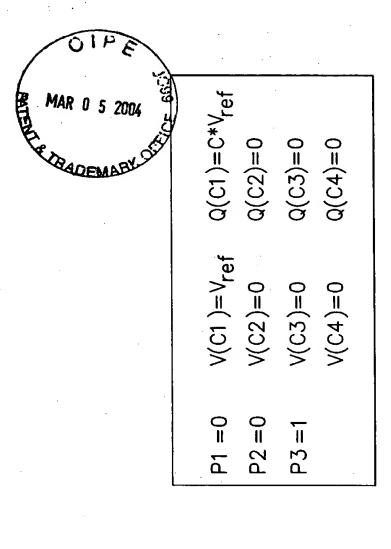


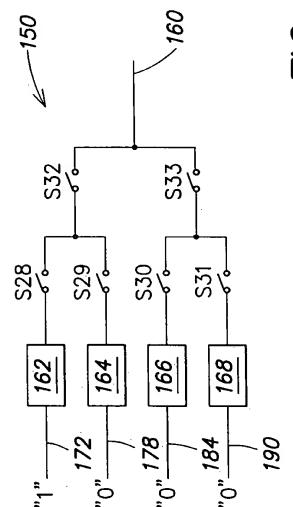
FIG. 9

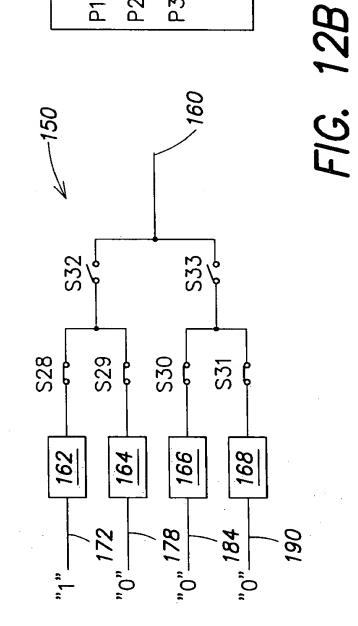






	Q(C1)=C*V <sub>ref</sub> /2 Q(C2)=C*V <sub>ref</sub> /2 Q(C3)=0 Q(C4)=0
	V(C1)=V <sub>ref</sub> /2 V(C2)=V <sub>ref</sub> /2 V(C3)=0 V(C4)=0
2A	P1=1 P2=0 P3=0
$\sim$	







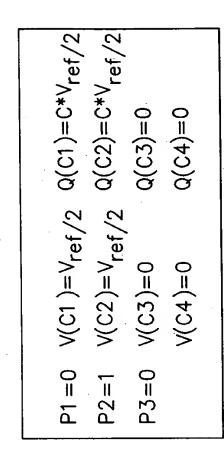


FIG. 12C

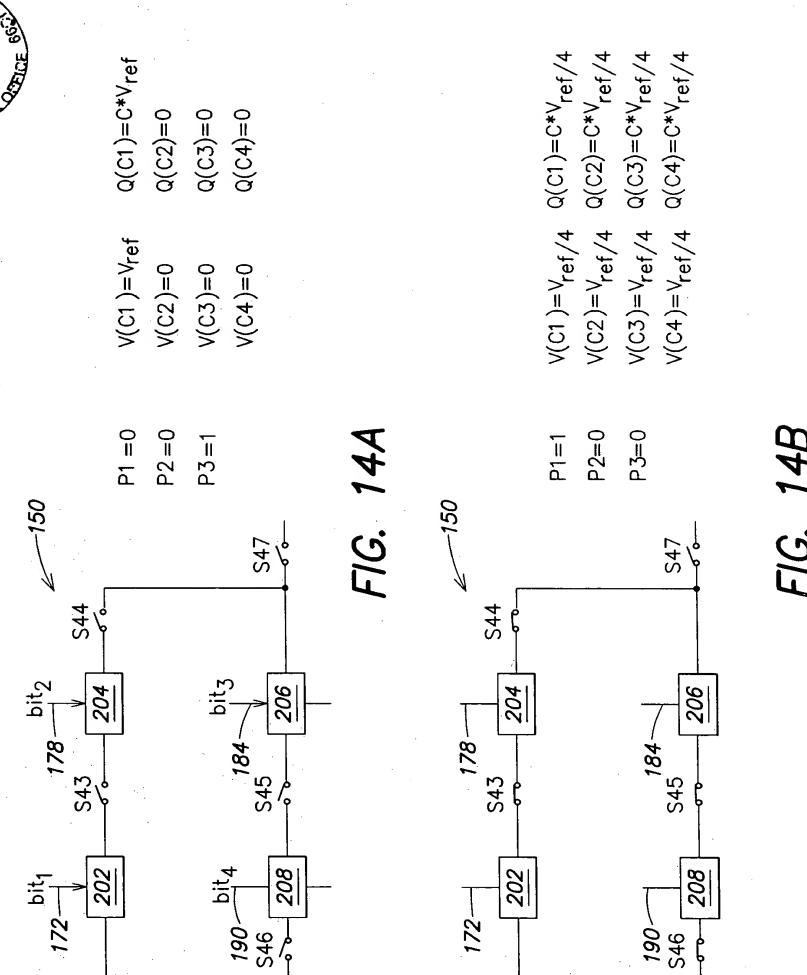
$$1.7$$
 $162$ 
 $162$ 
 $164$ 
 $164$ 
 $166$ 
 $166$ 
 $166$ 
 $168$ 
 $169$ 
 $190$ 

**S16** 

190

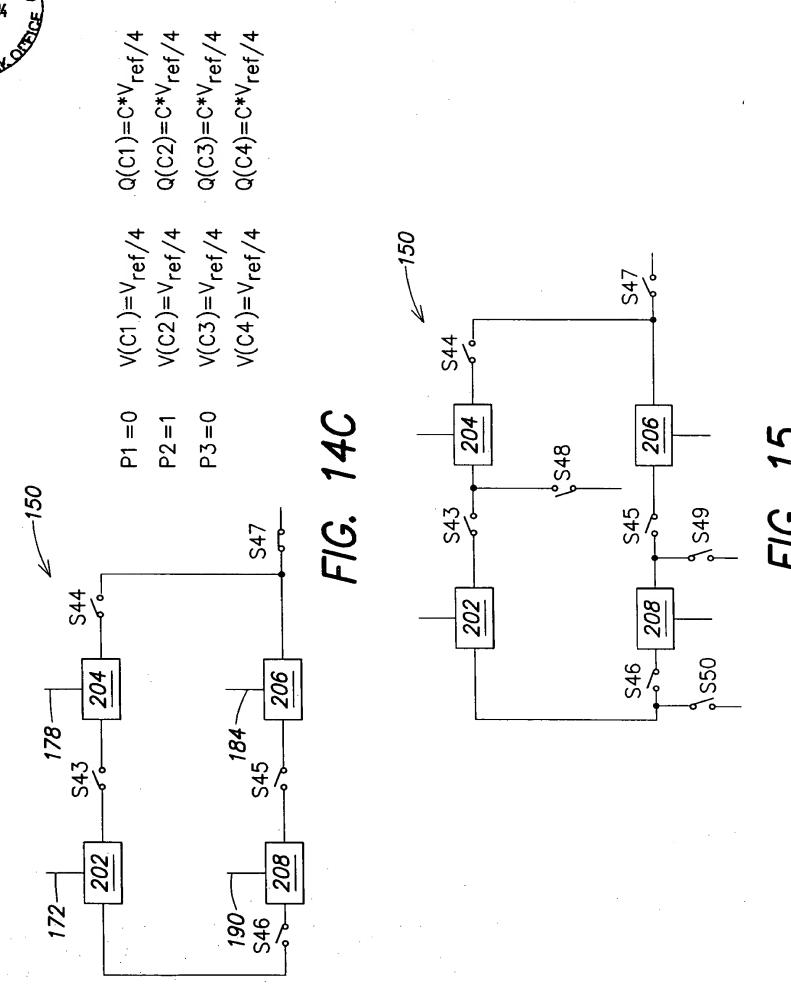
bit<sub>4</sub>











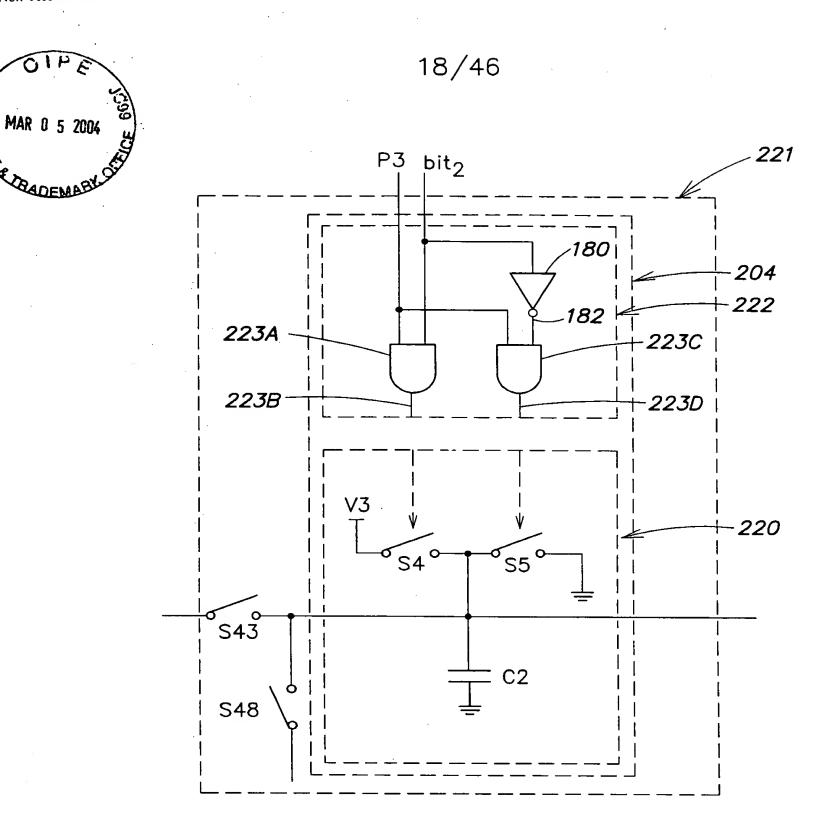


FIG. 16A



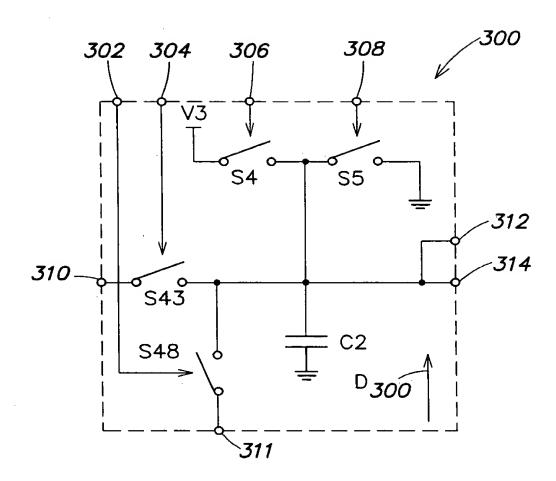


FIG. 16B

RADEME

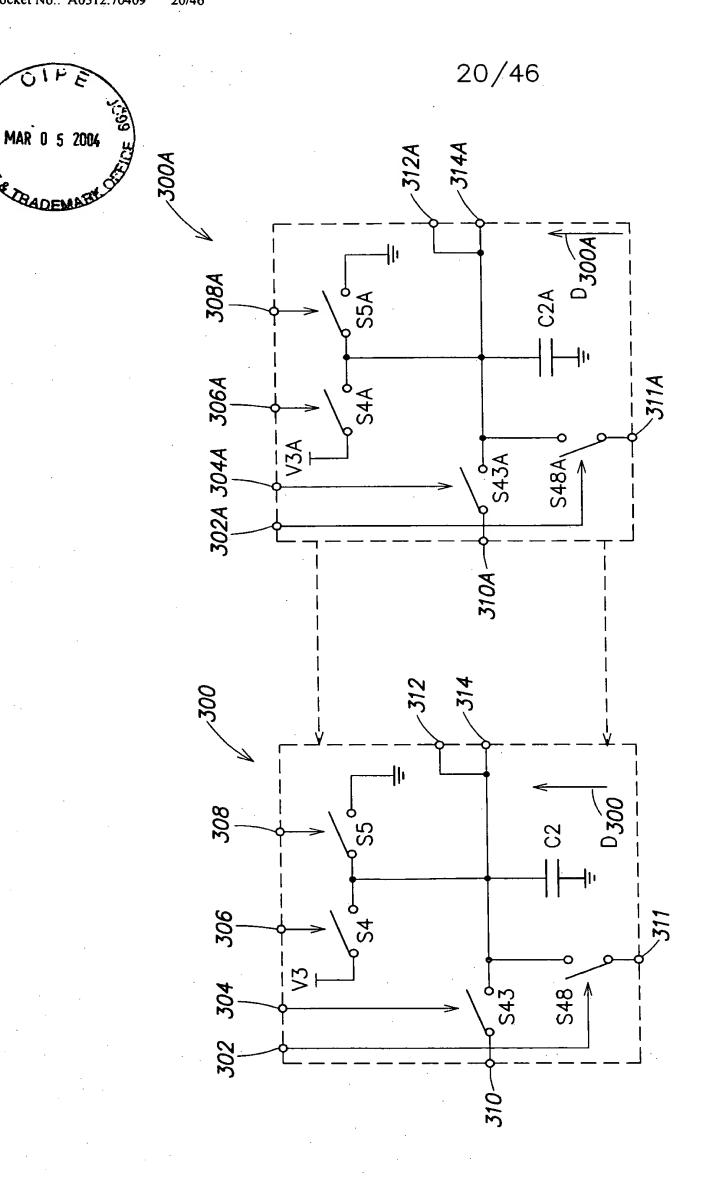


FIG. 16C

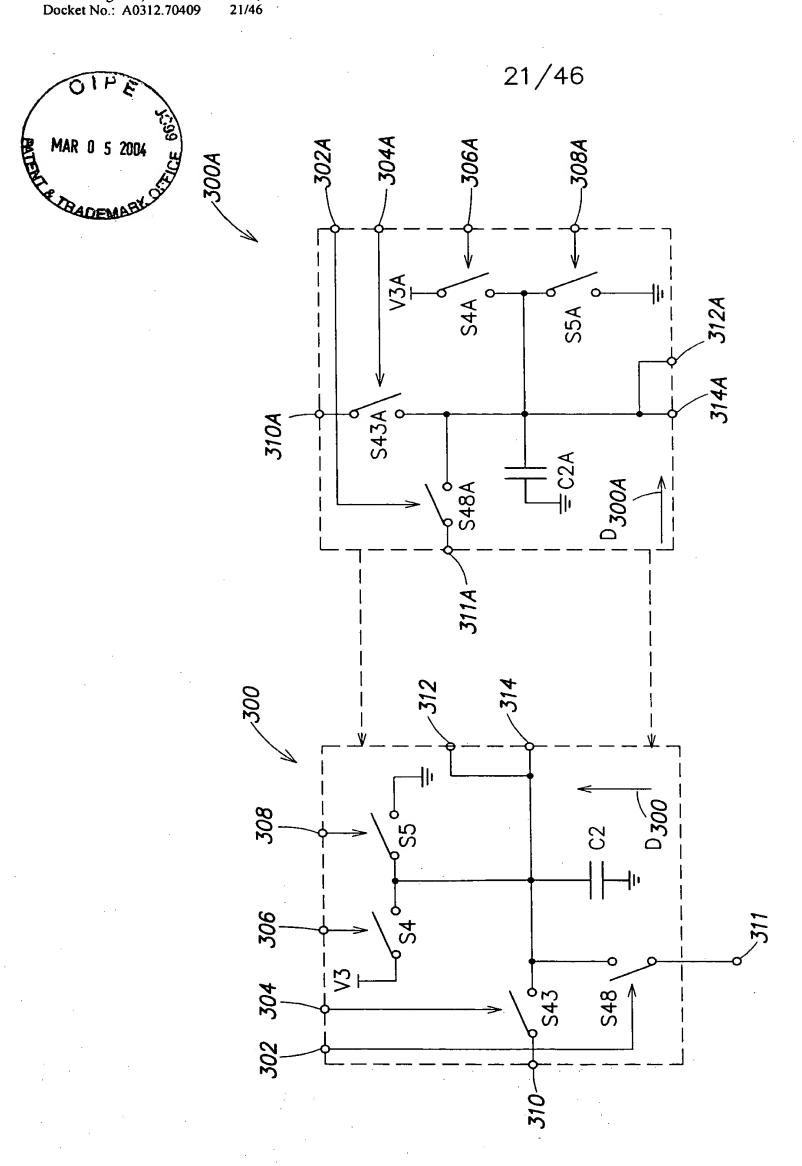


FIG. 16D

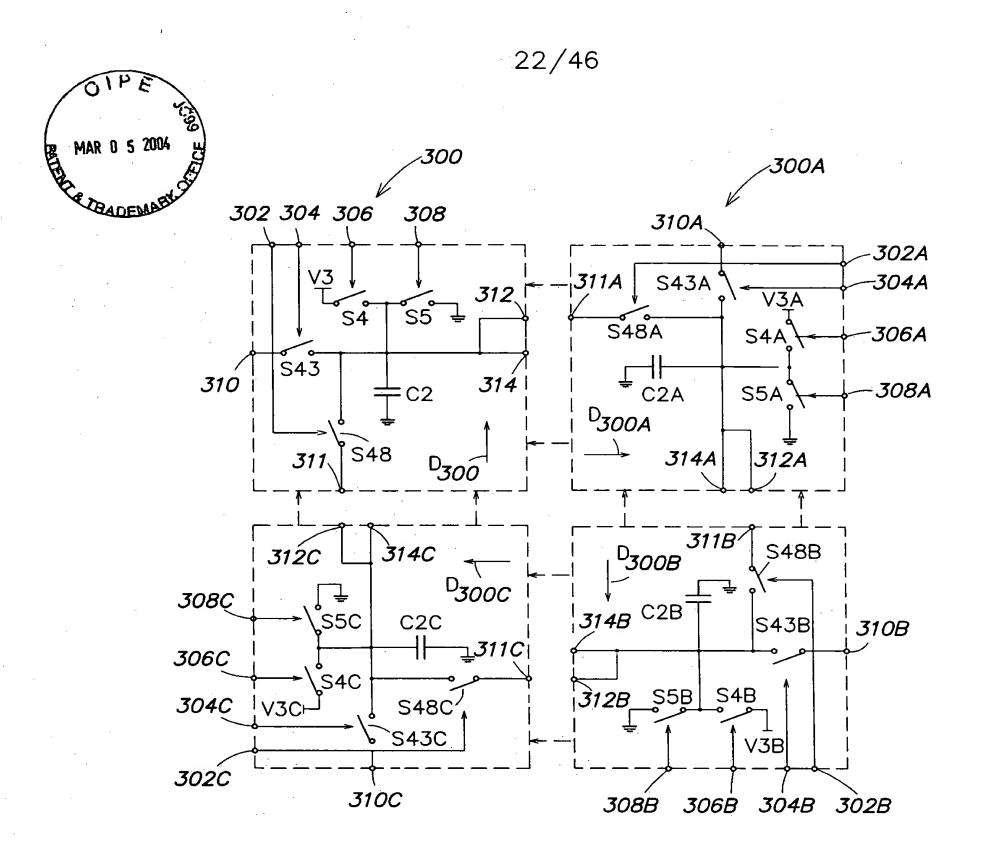


FIG. 16E

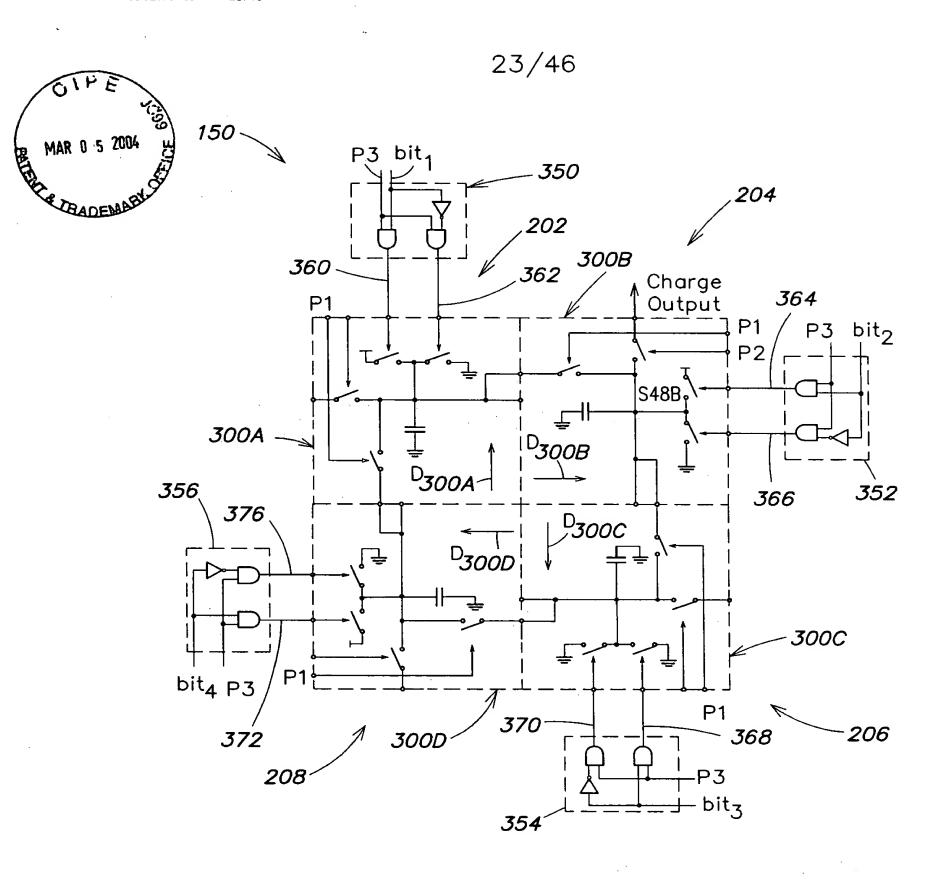


FIG. 17



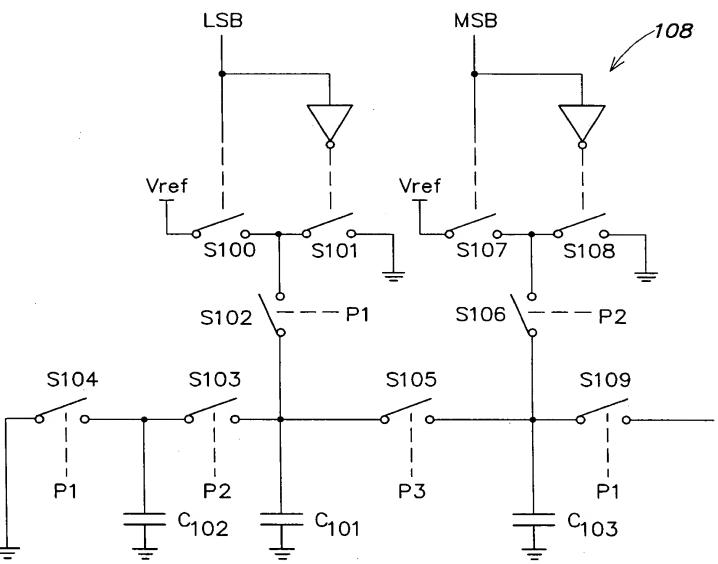
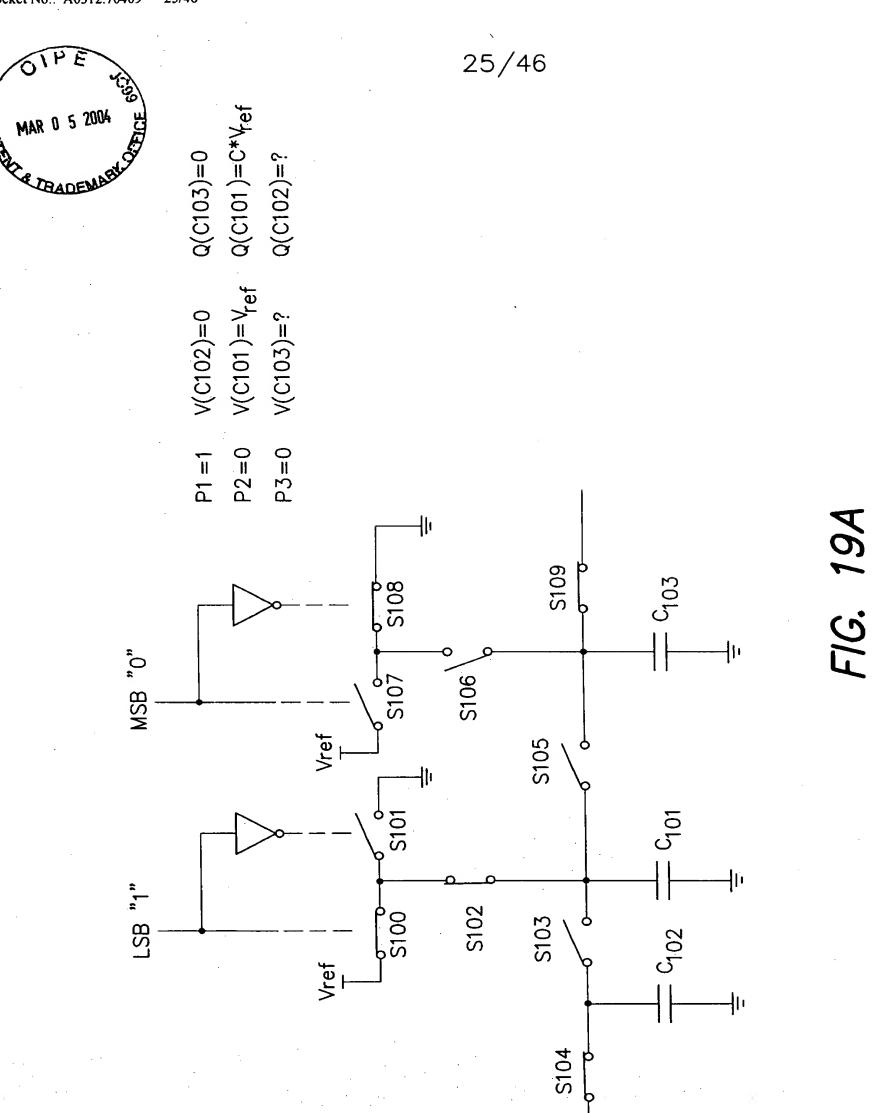


FIG. 18



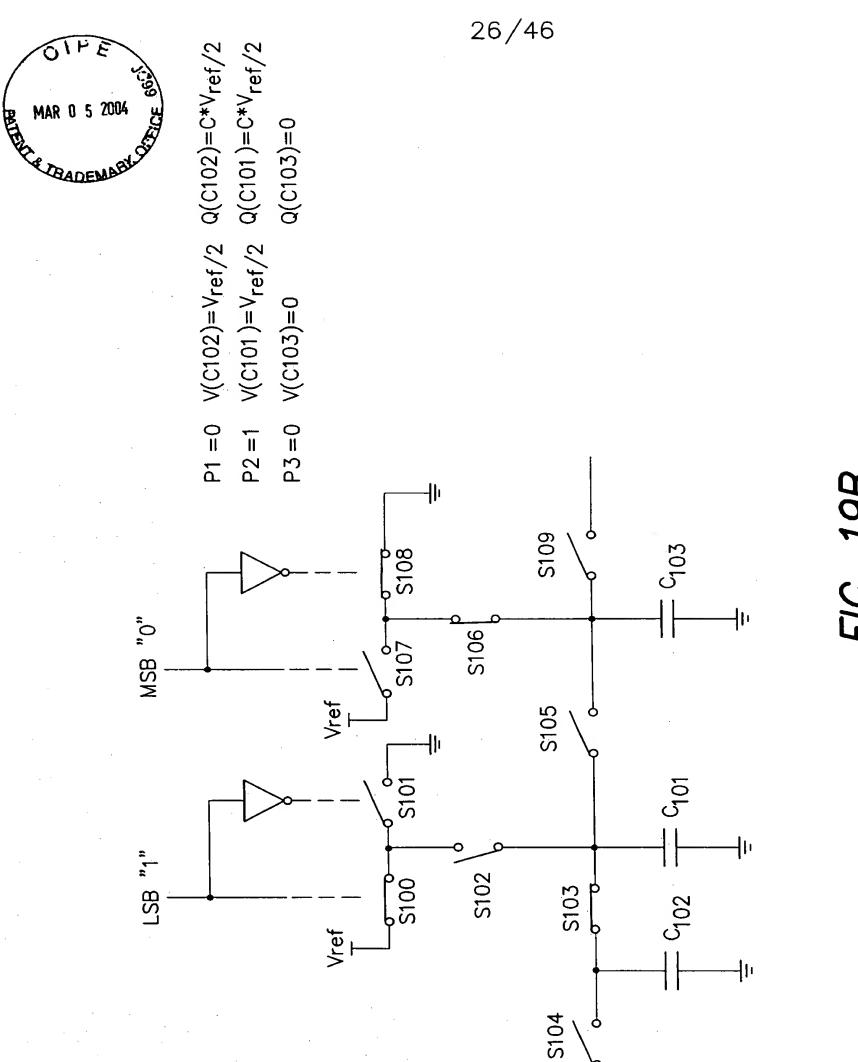
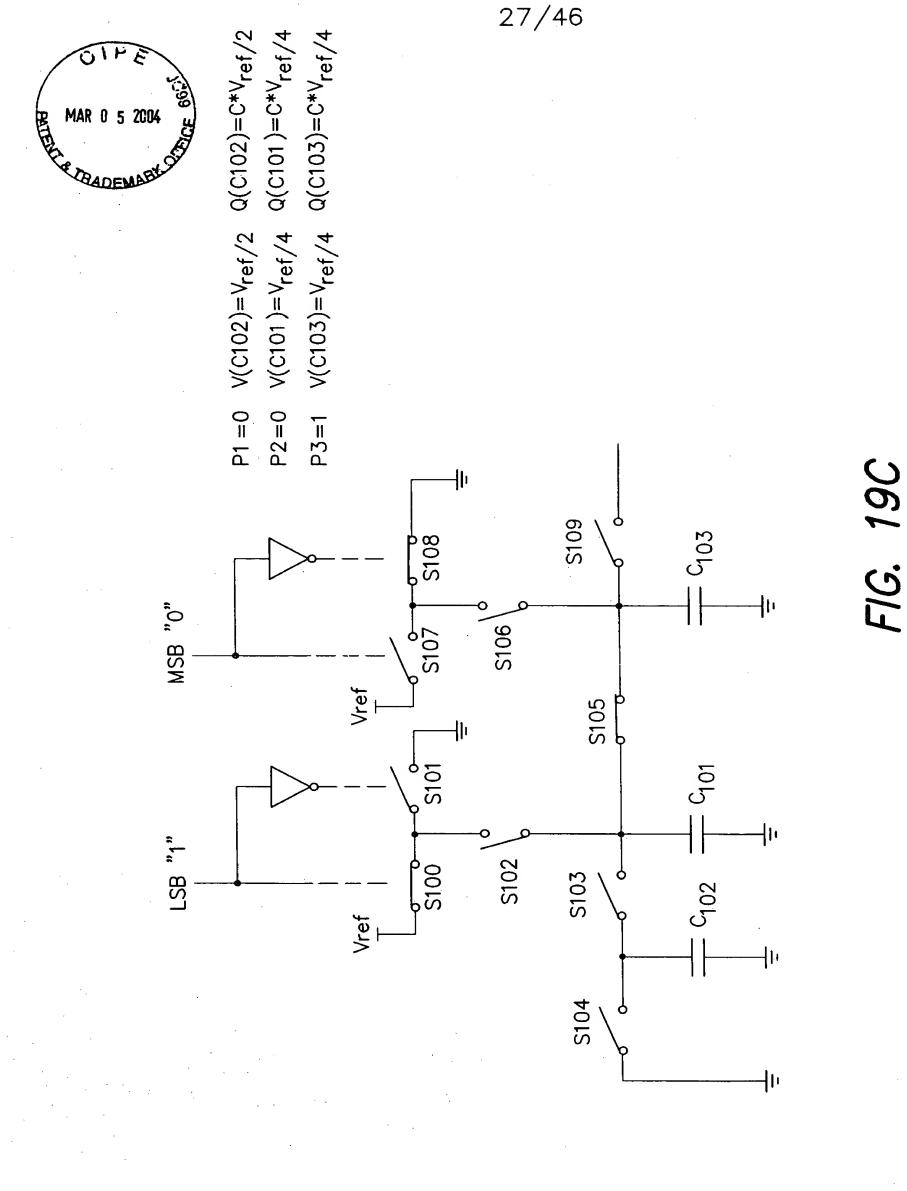


FIG. 19B





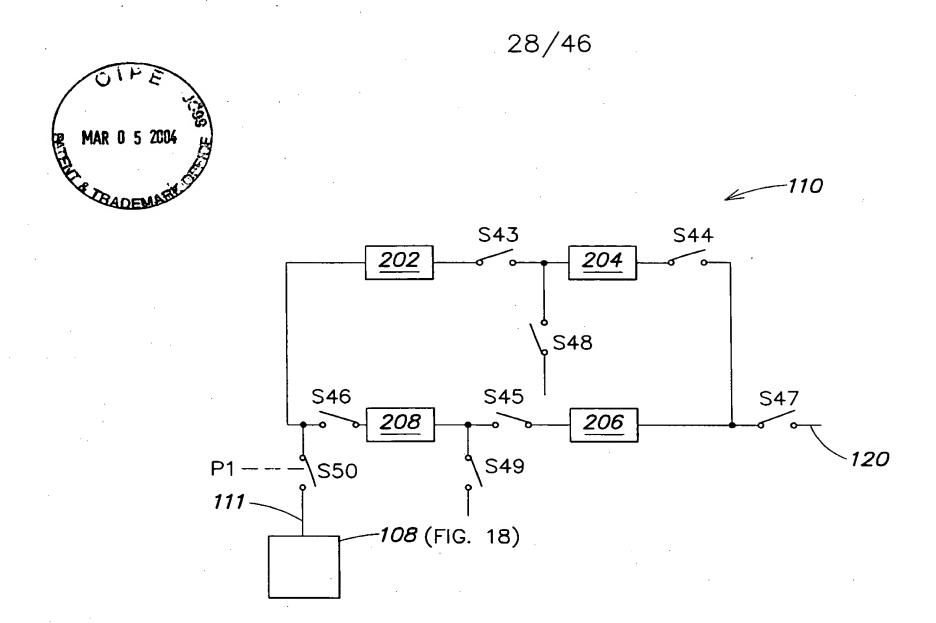
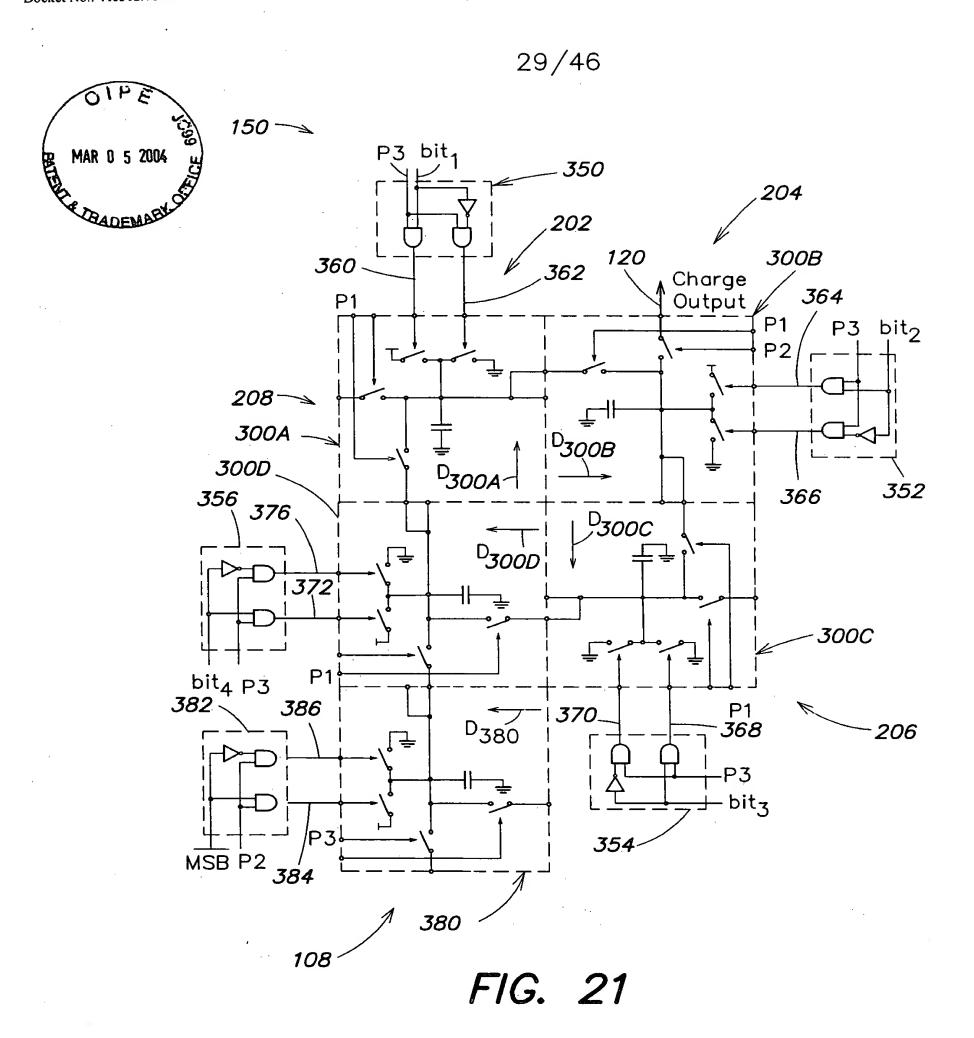


FIG. 20



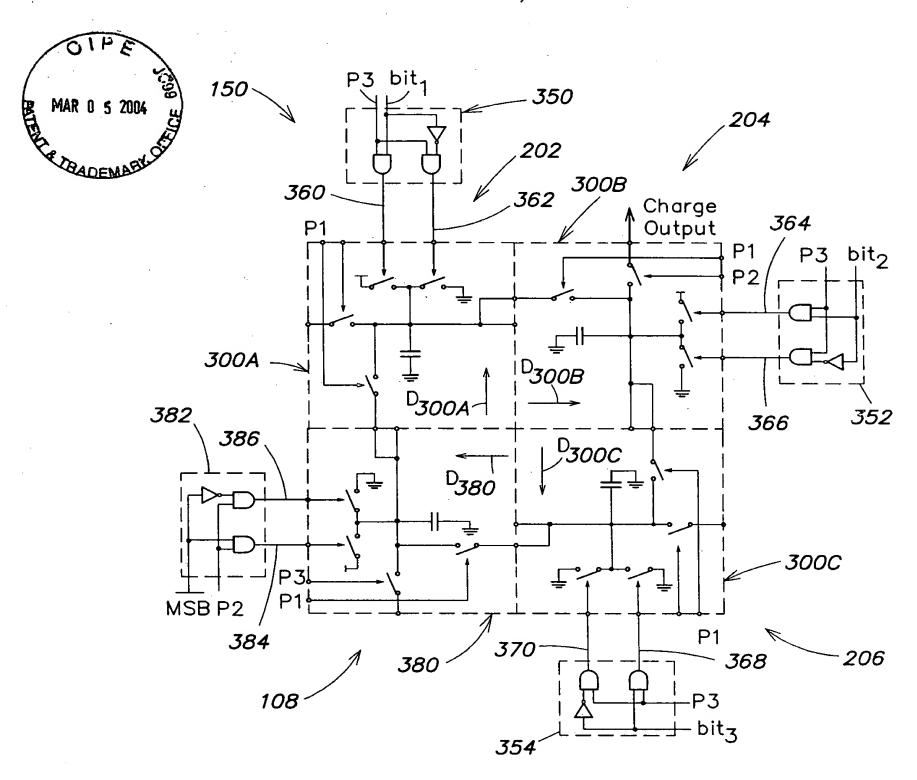
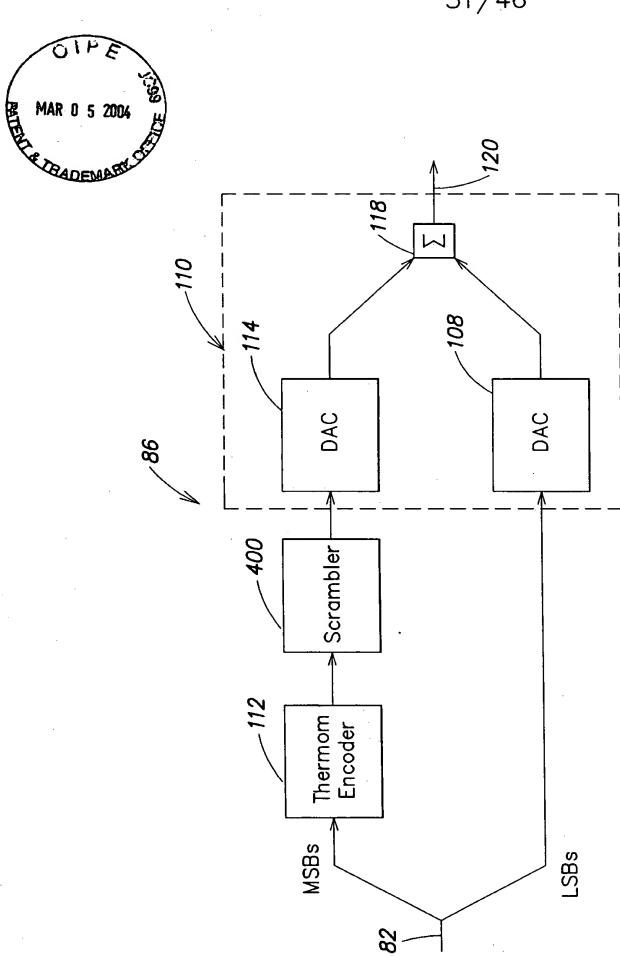


FIG. 22





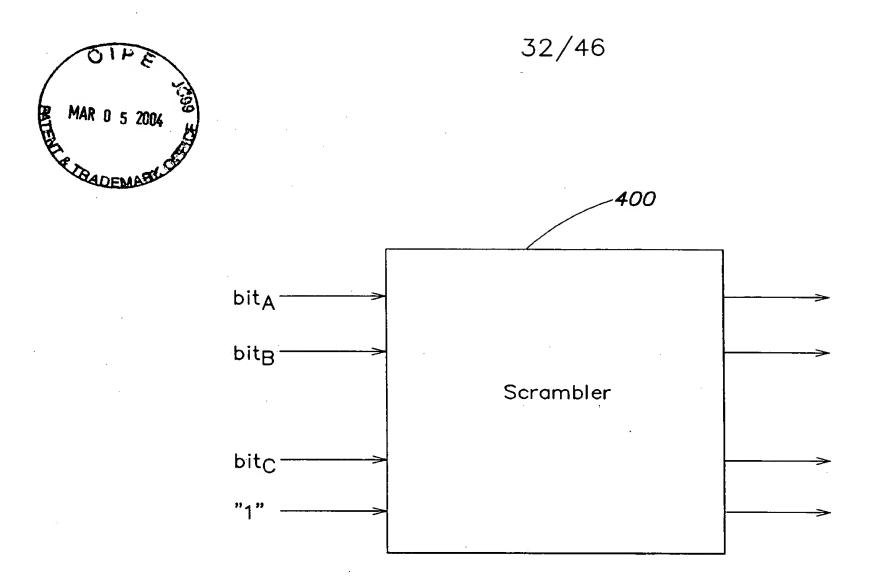


FIG. 24

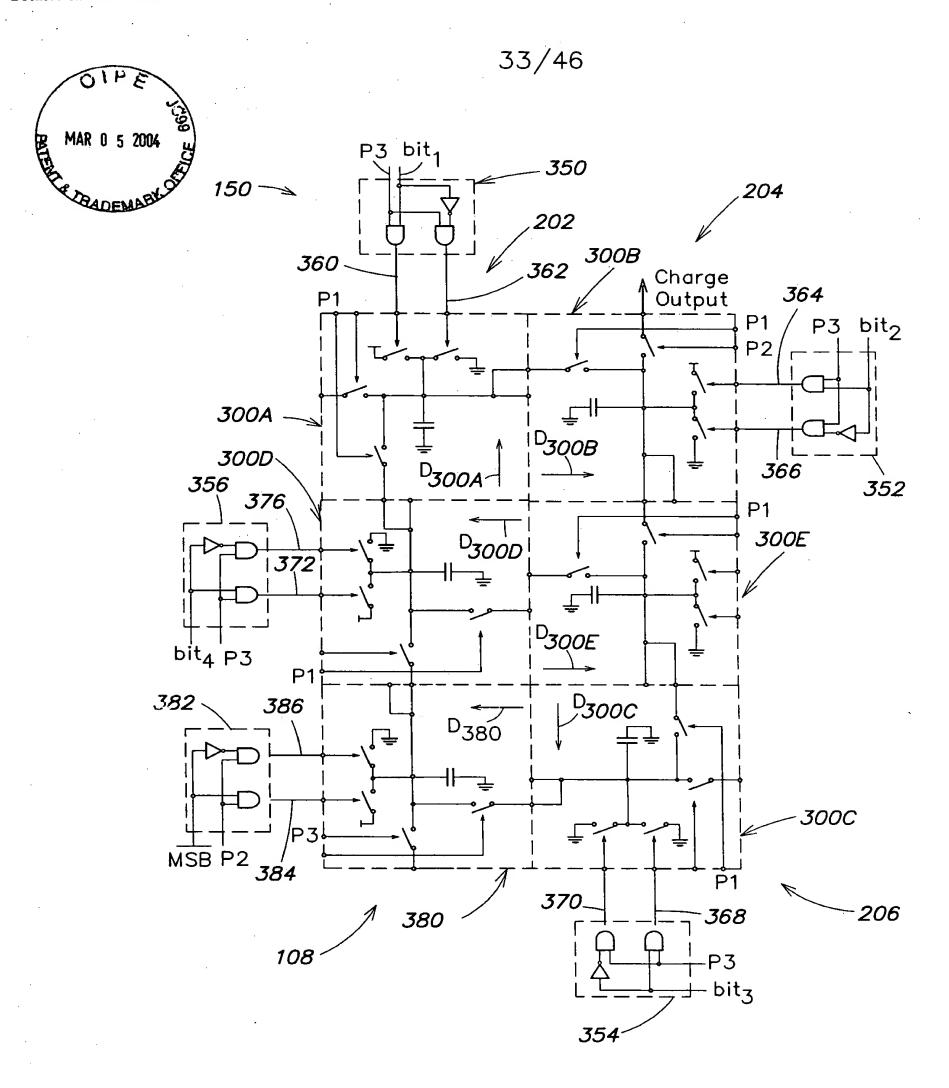
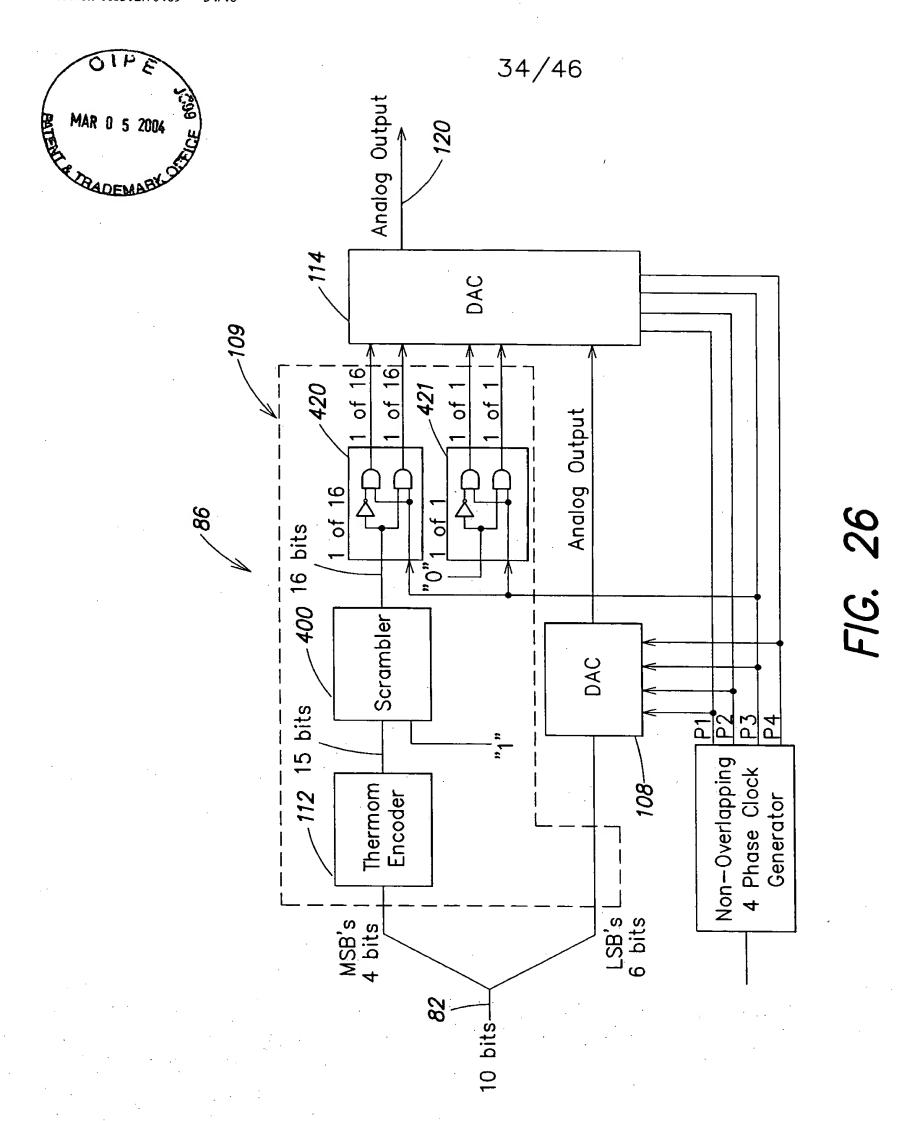
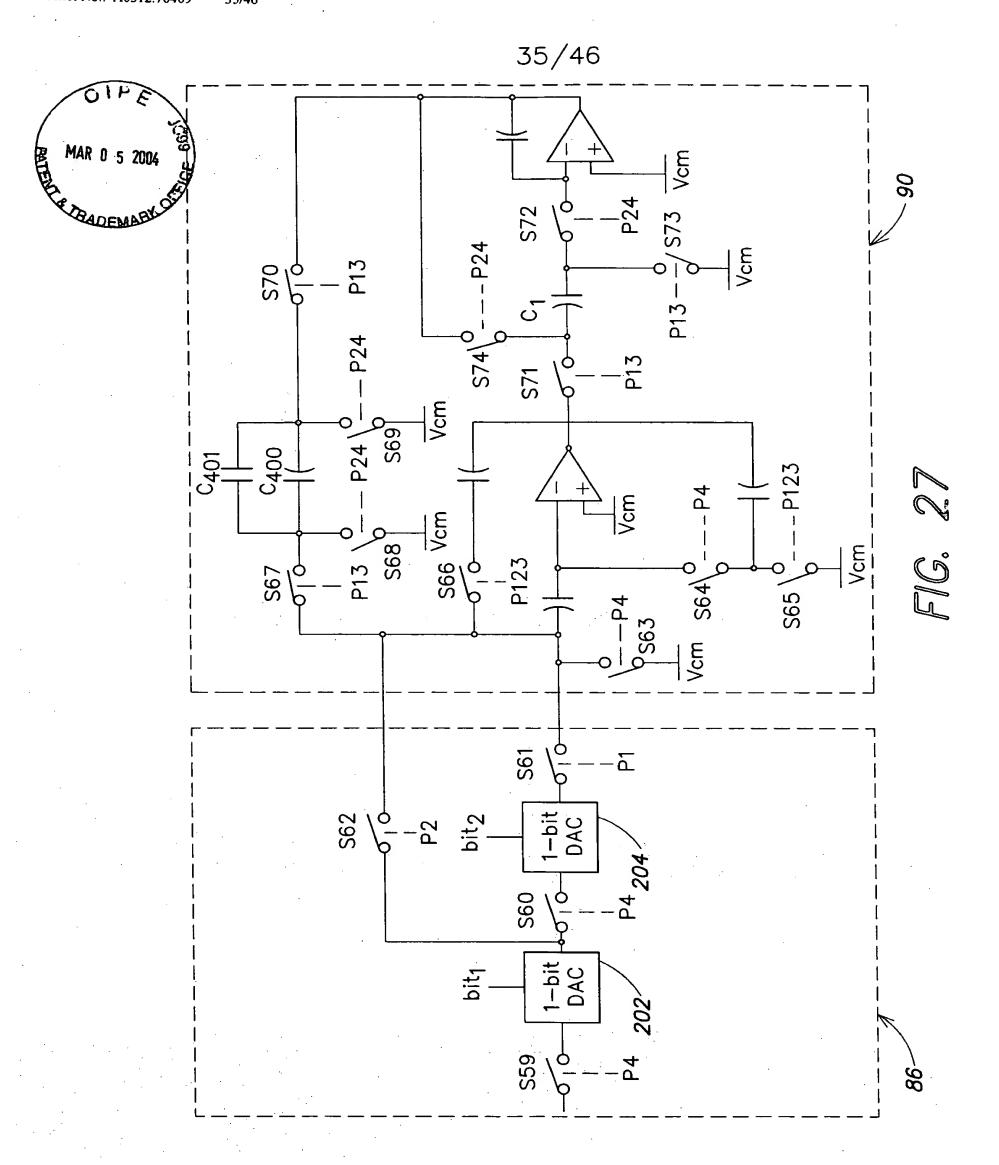


FIG. 25





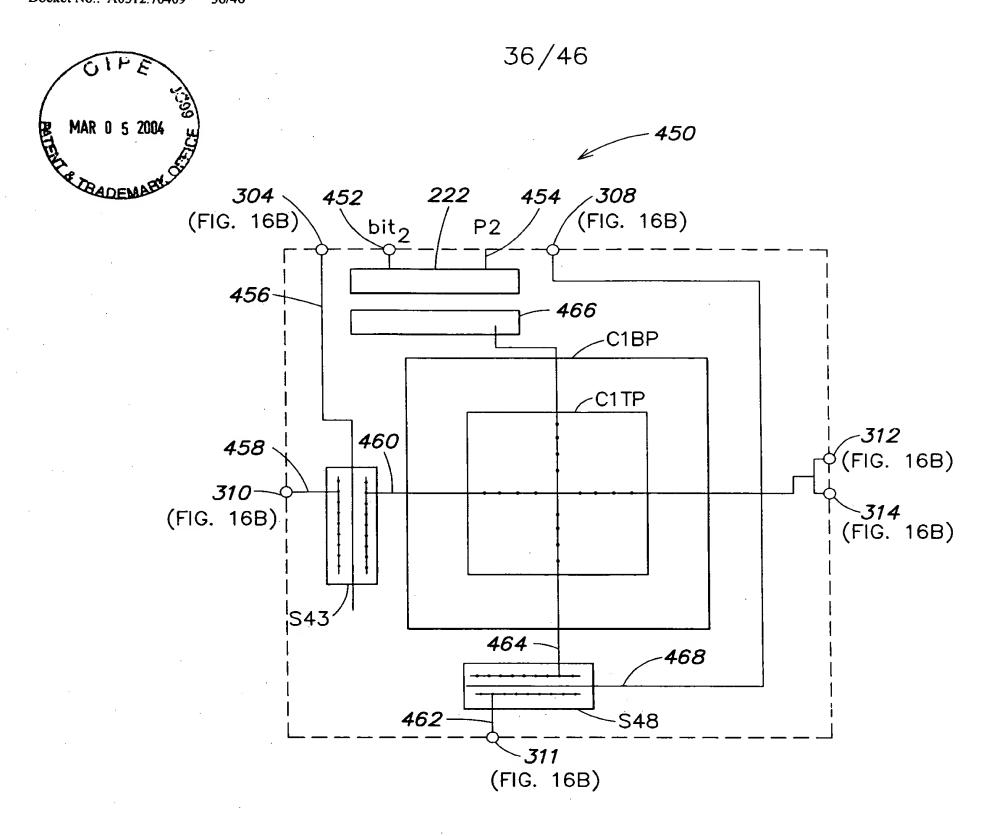


FIG. 28A

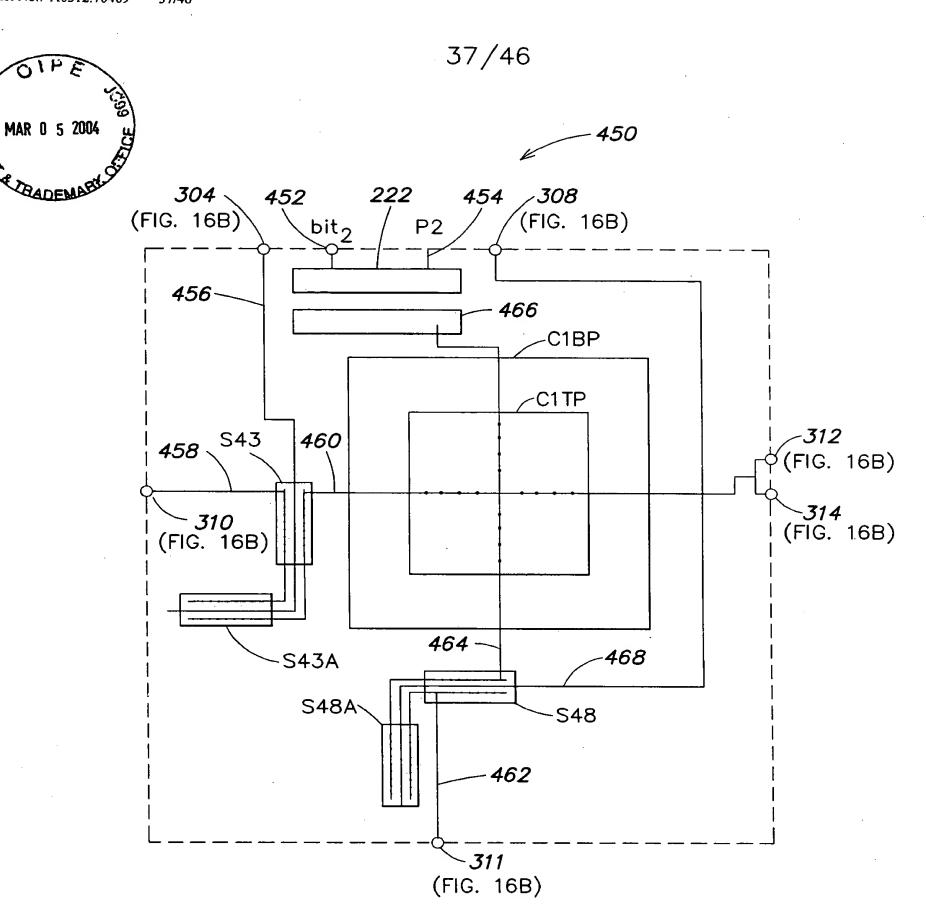


FIG. 28B



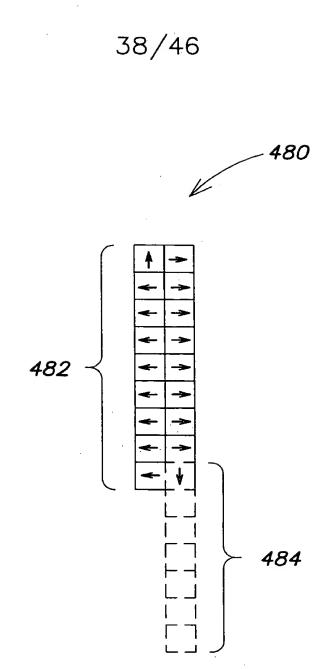


FIG. 29



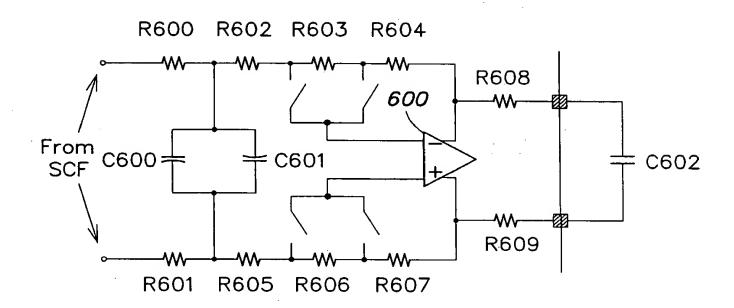


FIG. 30

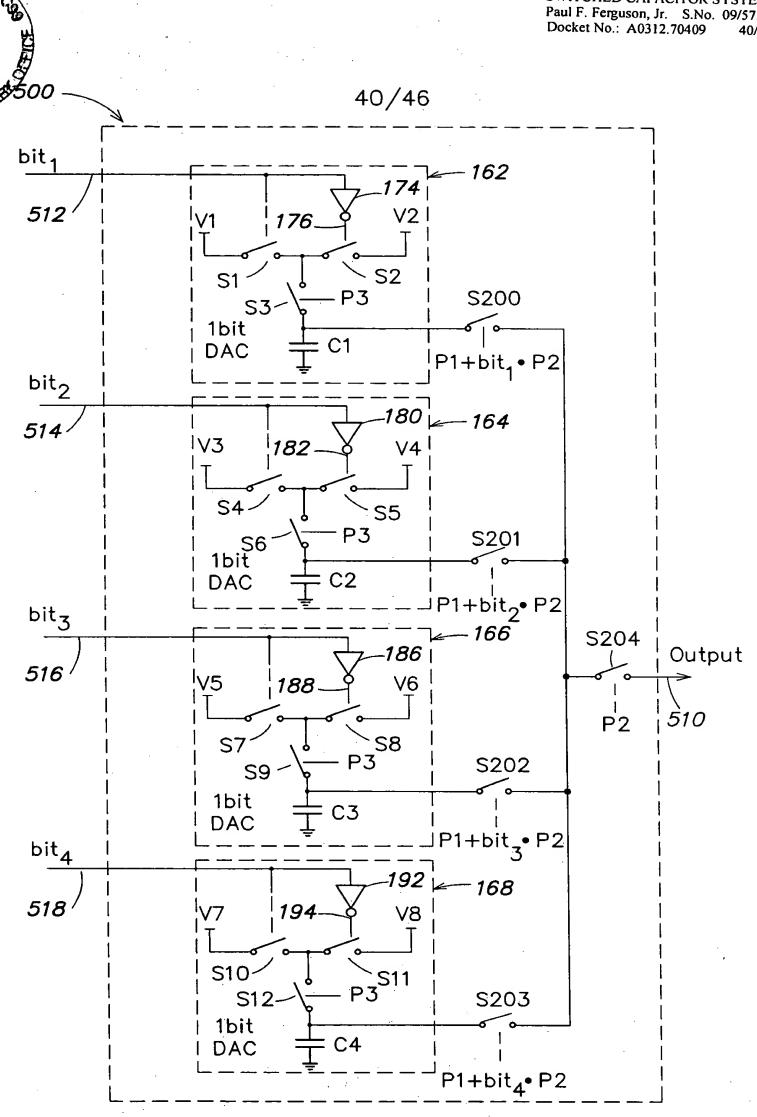


FIG. 31

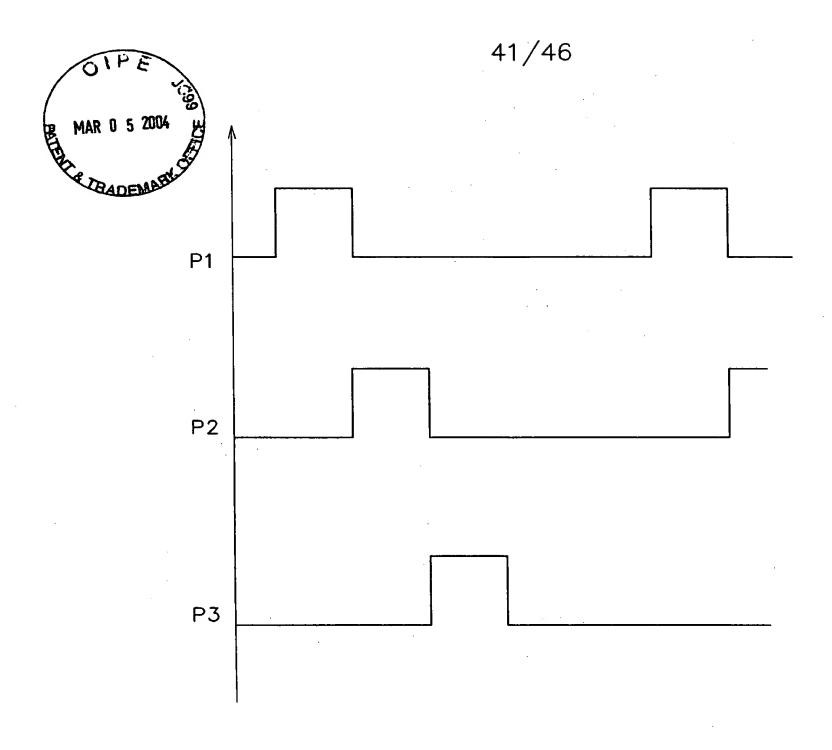
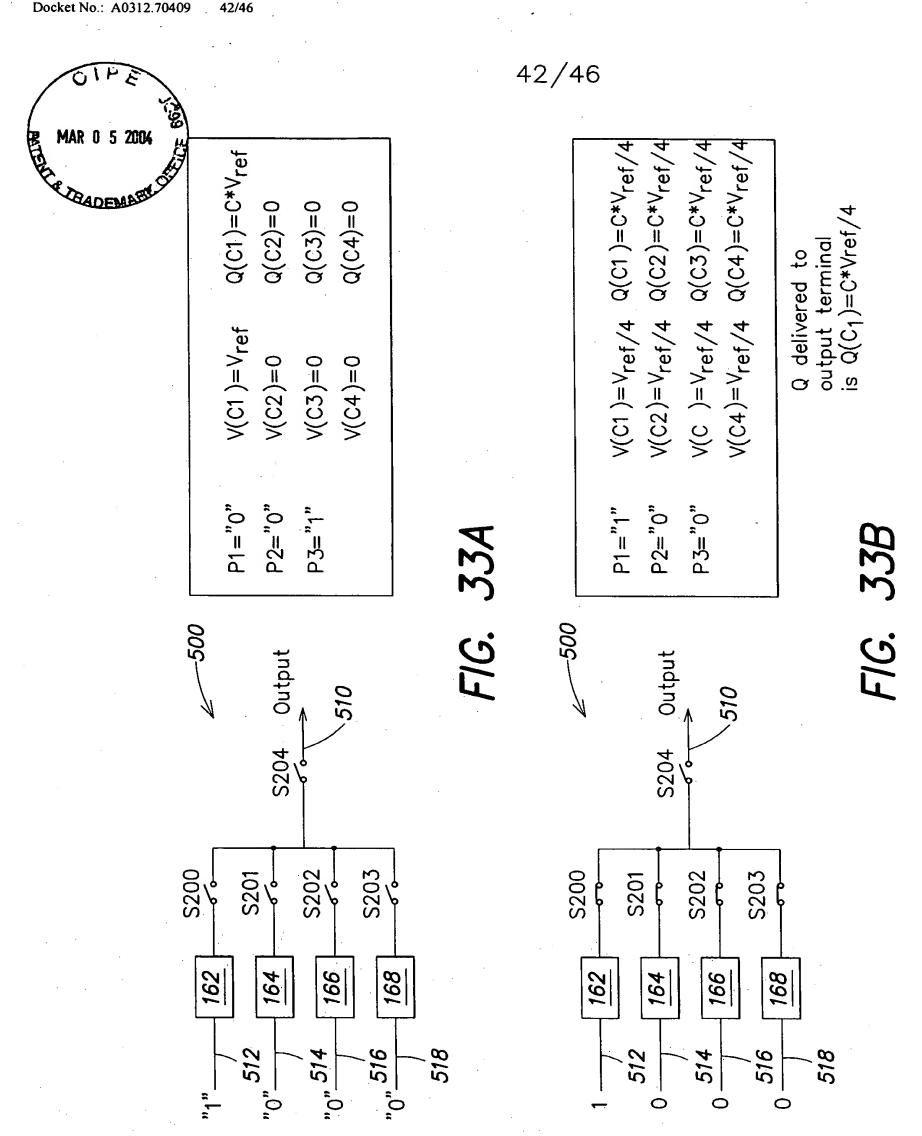


FIG. 32

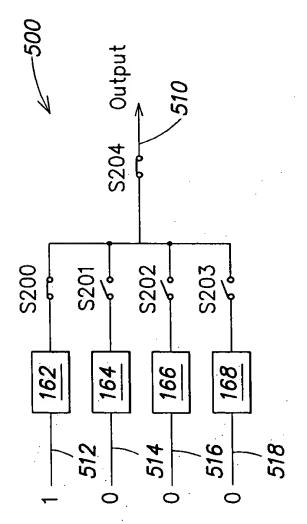


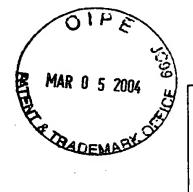


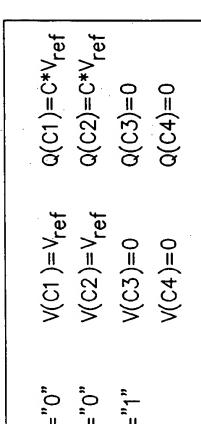
V(C1 )=Vref/4 Q(C1)=C*Vref/4	$V(C2)=V_{ref}/4$ Q(C2)=C*V <sub>ref</sub> /4	$V(C3)=V_{ref}/4$ Q(C3)=C*Vref/4	V(C4)=Vref/4 Q(C4)=C*Vref/4
P1 = 0 V(C1)	P2 = "1" V(C2)	P3="0" V(C3)	V(C4)

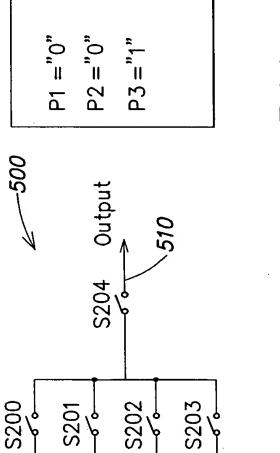
Q delivered to output terminal is Q(C<sub>1</sub>)=C\*Vref/4

FIG. 33C

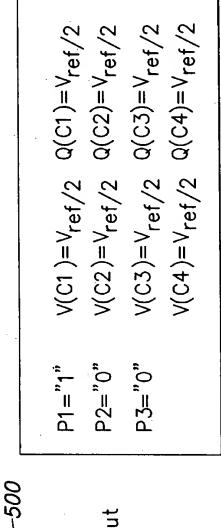












Output

**S204** 

S201

**S200** 

S202

**S203** 

44/46

Q delivered to output terminal is  $Q(C_1)+Q(C_2)=C*Vref/2+C*Vref/2=C*Vref$ 

FIG. 34B



P1 ="0" $V(C1) = V_{ref/2}$ $Q(C1) = V_{ref/2}$ P2 = "1" $V(C2) = V_{ref/2}$ $Q(C2) = V_{ref/2}$ P3 = "0" $V(C3) = V_{ref/2}$ $Q(C3) = V_{ref/2}$ $V(C4) = V_{ref/2}$ $Q(C4) = V_{ref/2}$				
	Q(C1 )=V <sub>ref/2</sub>	$Q(C2)=V_{ref/2}$	Q(C3)=V <sub>ref/2</sub> Q(C4)=V <sub>ref/2</sub>	
P1 = "0" P2 = "1" P3 = "0"	V(C1 )=V <sub>ref</sub> /2	$V(C2)=V_{ref}/2$	$V(C3)=V_{ref/2}$ $V(C4)=V_{ref/2}$	
·	P1 ="0"	P2="1"	.P3="0"	

Q delivered to output terminal is  $Q(C_1)+Q(C_2)=C*Vref/2+C*Vref/2=C*Vref$ 

FIG. 34C





-800

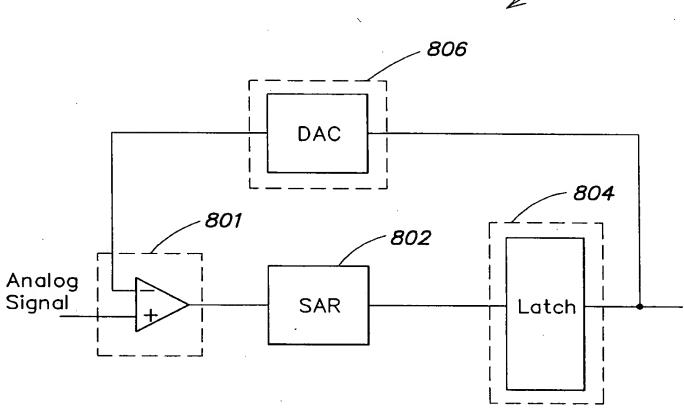


FIG. 35